IBM ASSIGNMENT 2 - TO GET TEMPERATURE AND HUMIDITY VALUES AND DETECT ALARM INCASE OF HIGH TEMPERATURE.

```
import random
temp=random.uniform(-50,50)
#by using random.uniform function a random float value will be generated for temperature for example:25.718184973594976 print("TEMPERATURE:",temp)

temp=round(temp, 2)
#by using round of function the decimal points in the temperature will be reduced for example:25.7

print("TEMPERATURE:",temp)

#by using if condtion & elif condition the temperature level is observed  if(temp<=0):
  print("very cold")

elif(temp<=20):
    print("cold")
 elif(temp<=30):
   print("Room temperature")
elif(temp<=40):
   print("hot")

else:
  print("very hot alarm will be  on")
humidity=random.randint(0,100)
#by using random.randint function a random int value will be generated for humidity for example:55

print ("HUMIDITY:",humidity)
```

```
#by using if condtion & elif condition the humidity level is observed

if(humidity==0):

   print("no humidity")

elif(humidity<=50):

   print("humidity is  low")

else:
print("humidity is high alarm will be on")
```

OUTPUT:

```
TEMPERATURE: 49.013789390052935
TEMPERATURE: 49.01
very hot alarm will be on
 HUMIDITY: 79
humidity is high alarm will be on
```